

BUDYLINA, V.V.; MAGILINOVSKIY, L.I.; BEL'CHENKO, G.V.; ZINCHENKO, I.A.;
FILIMONOVA, A.A.; CHUMANOV, M.A.

Studies on the reactive properties of antidiphtherial sera
treated by aluminum hydroxide; author's abstract. Zhur.
mikrobiol.epid. i immun. 30 no.5:89-90 My '59. (MIRA 12:9)

1. Iz Stavropol'skogo instituta vaktsin i syvorotok, Mineralovodskoy
bol'nitsy, Cherkesskoy oblastnoy bol'nitsy, Stavropol'skoy infekt-
sionnoy bol'nitsy i Pyatigorskoy infektsionnoy bol'nitsy.
(ANTACIDS, eff.

aluminum hydroxide on anti-diphtherial immune
sera (Rus))
(DIPHTHERIA, immunol.
antiserum, eff. of aluminum hydroxide (Rus))

ILLYUTOVICH, A.Yu.; BUDYLINA, V.V.; MAKHINOVSKIY, L.I.; BULGAKOVA, A.S.

Seroprophylaxis of tetanus. Zhur. mikrobiol. epid. i immun. 32 no.7:
70-73 Je '61.
(MIRA 15:5)

1. Iz Stavropol'skogo instituta vaktsin i syvorotok i gorodskogo
travmatologicheskogo kabineta.
(TETANUS)

BUDYLIN, V.V.; ILLYUTOVICH, A.Yu.; TORBAN, M.A.

Experimental study of antitetanus Diaferm-3 sera additionally
treated with aluminum hydroxide. Zhur. mikrobiol., epid. i
immmun. 33 no.2:87-92 F '62. (MIRA 15:3)

1. Iz Stavropol'skogo instituta vaktsin i syvorotok.

(SERUM)

(TETANUS)

(ALUMINUM HYDROXIDE)

BUDYLINA, V.V.; SOSINA, Z.I.

Electrophoretic study of antitoxic Diaferm 3 serums additional-
ly treated with aluminum hydroxide. Zhur. mikrobiol., epid. i
immun. 40 no.1:141-147'63. (MIRA 16:10)

1. Iz Stavropol'skogo instituta vaktsin i syvorotok.

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ILLYUTOVICH, A.Yu.; BUDYLINA, V.V.; RAYKIS, B.N.

Study of immunological shifts in the administration of
purified adsorbed tetanus anatoxin. Zhur. mikrobiol. epid.
i immun. 40 no.5:97-102 My '63. (MIRA 17:6)

1. Is Stavropol'skogo instituta vaktsin i syvorotok.

BUDYLINA, V.V.; IVANOVSKIY, A.S.; ANISIMOVA, Ye.M.

Effect of antigen, production-time period and physiological state
of the producing horses on the quality of native antitoxic sera.
Vak. i syv. no.1:83-89 '69. (MIFA 18:8)

1. Stavropol'skiy institut vaksin i sывороток.

ZARAKHANI, N.G.; BUDYLINA, V.V.; VIMNIK, M.I.

Kinetics and mechanism of reactions taking place in a medium of strong concentrated acids. Part 9. Zhur.fiz.khim. 39 no.7:1561-1565 Jl '65. (MIRA 18:8)

I. Institut khimicheskoy fiziki AN SSSR.

1. 1000 ft. W. of Hwy 90, White, MI.

2. 1000 ft. west of Hwy 90, White, MI. (KRA 1819)

3. 1000 ft. White, MI.

BUDYLKIN, P.I., inzhener-ekonomist.

Accounting on a commercial basis in the Krasnedar telegraphy.
Vest.sviazi 16 no.2:15 F '56. (MIRA 9:7)

1.Krasnedarskiy telegraf.
(Krasnedar--Telecommunication--Accounting) (Telegraph)

BUDYLKIN, I.
inshener-ekonomist.

Unused resources. Sots. trud no.5:133-134 My '57. (MLRA 10:6)

1. Krasnodarskiy telegraf.
(Labor productivity) (Telegraphy)

L 52767-65 EWT(1)/EWG(v) Pe-5/Pae-2 GW
ACCESSION NR: A75009972

UR/3010/65/000/014/003D/0044

AUTHOR: Budyko, M. I.

TITLE: Heat balance of the Earth

SOURCE: AN SSSR. Mezhdunarodnyy geofizicheskiy komitet. Geofizicheskiy byulleten', no. 14, 1965, 39-44

TOPIC TAGS: Earth heat balance, heat balance atlas, IGY heat balance survey, actinometry

ABSTRACT: This is a survey of the international actinometric measurements and other scientific activities related to the Earth's heat balance carried out during the IGY. It mentions the results of actinometric measurements at approximately 530 stations (200 of them Soviet), the radiation and thermal balance of the oceans, the new atlas containing 69 world charts of the thermal balance of the Earth's sphere (prepared by T. G. Berlyand, N. A. Yefimova, I. I. Zubenok, L. A. Strokina, K. Ya. Vinnikova, and other collaborators of the Glavnaya geofizicheskaya observatoriya [Main Geophysical Observatory]), heat balance data concerning the Antarctic and Arctic Oceans, conclusions about climatic conditions in preglacial times, various terms and constants of the Earth's heat balance, charts showing the average values of the total radiation and radiation balance of the

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L 52767-65

ACCESSION NR: AT5009972

Soviet Union established by Z. I. Pivovarova, studies of the radiation conditions during the IGY by Z. I. Pivovarova, T. G. Berlyand and numerous non-Soviet researchers, and the observations of anomalous total radiation and total radiation balance connected with anomalous cloudiness.

ASSOCIATION: none

SUBMITTED: 00

NO REF SOV: 000

ENCL: 00

SUB CODE: ES

OTHER: 000

Card DR
2/3

S/076/60/034/010/005/022
B015/B064

AUTHORS: Cheshko, F. F., Bocharova, V. V., Budylo, L. K.,
Shevchenko, O. I., and Naumenko, V. P.

TITLE: Physico-chemical Investigations of the Sensitivity of the Benzene Cycle to Polarizing Actions of the Solvent and the Field of Force. I. Magneto-optical Examination of the Intermolecular Interactions in Binary Nitrobenzene Systems of the Alkyl-substituted Benzene Derivatives

PERIODICAL: Zhurnal fizicheskoy khimii. 1960, Vol. 34, No. 10,
pp. 2190-2198

TEXT: Alkyl derivatives of benzene, polyphenyl hydrocarbons and acene hydrocarbons were investigated in binary systems with nitrobenzene to determine the influence of functional groups upon the polarizability of the benzene cycle. The composition of the molecular compounds thus formed was determined since from the difference in the composition of these compounds it is possible to determine the varying intermolecular interaction.

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Physico-chemical Investigations of the Sensitivity of the Benzene Cycle to Polarizing Actions of the Solvent and the Field of Force. I. Magneto-optical Examination of the Intermolecular Interactions in Binary Nitrobenzene Systems of the Alkyl-substituted Benzene Derivatives

S/076/60/034/010/005/022
B015/B064

Various physico-chemical methods of analysis are applied to determine the composition of the molecular compounds. The authors are the first to publish experimental data of the magneto-optical examinations of the binary nitrobenzene systems with alkyl derivatives in benzene. By means of an electric apparatus containing a precision polarimeter as well as a M-19 (M-19) fluxmeter to measure the magnetic field, the diagrams of the dependence of the angle of rotation α_H^0 of the polarization plane in the magnetic field on the composition of the binary system were plotted (Figs. 2-4), and the composition of the molecular compounds thus formed determined. The total picture of the curve "composition α_H^0 " shows that the components have no additive properties. The following rules were established: a prolongation of the n-alkyl chain is accompanied by an

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Physico-chemical Investigations of the
Sensitivity of the Benzene Cycle to
Polarizing Actions of the Solvent and the
Field of Force. I. Magneto-optical Examina-
tion of the Intermolecular Interactions in
Binary Nitrobenzene Systems of the Alkyl-
substituted Benzene Derivatives

S/076/60/034/010/005/022
B015/B064

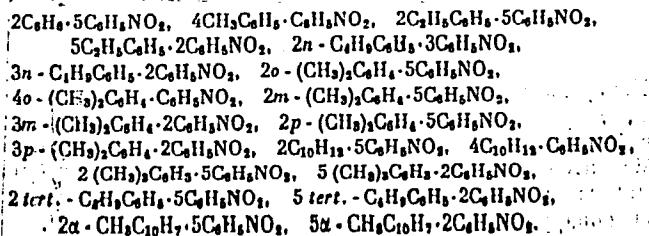
increase of the dipole moment and the polarizability, and weakens the magneto-optical activity (Fig. 2, Curves 1-4). The cyclization of an n-butyl chain on the benzene cycle increases the magneto-optical activity (Fig. 3, Curves 1,2). A prolongation and cyclization of the alkyl groups in o-position changes the dipole moment and the magneto-optical activity (Fig. 3, Curves 2,3) only inconsiderably. A symmetrization of the methyl groups arranged around the benzene cycle eliminates polarization and weakens the magneto-optical activity (Fig. 3, Curves 4,5). A tertiary carbon atom increases the dipole moment and weakens the magneto-optical activity (Fig. 4, Curves 1,2). An isomerization of the butyl group weakens the magneto-optical activity (Fig. 2, Curve 4, Fig. 4, Curve 2). As a functional component of α -methyl naphthalene a diene system polarized by a methyl group increases the magneto-optical activity (Fig. 4, Curves 3,4)

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Physico-chemical Investigations of the Sensitivity of the Benzene Cycle to Polarizing Actions of the Solvent and the Field of Force.
I. Magneto-optical Examination of the Inter-molecular Interactions in Binary Nitrobenzene Systems of the Alkyl-substituted Benzene Derivatives

S/076/60/034/010/005/022
B015/B064

considerably. From the diagrams (Figs. 2-4) it is possible to determine the formation of the following molecular compounds:



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Physico-chemical Investigations of the
Sensitivity of the Benzene Cycle to
Polarizing Actions of the Solvent and the
Field of Force. I. Magneto-optical Examina-
tion of the Intermolecular Interactions in
Binary Nitrobenzene Systems of the Alkyl-
substituted Benzene Derivatives

S/076/60/034/010/005/022
B015/B064

The reaction mechanism of such compounds can be represented as polarization and orientation of the molecules of alkyl derivatives of benzene in the field of forces of the dipole molecules of nitrobenzene with a complete or partial compensation of the dipole moment. N. Tavadze and M. Vol'kenshteyn are mentioned in the text. There are 4 figures and 8 references:
5 Soviet, 1 British, 1 German, and 1 US.

ASSOCIATION: Khar'kovskiy polytekhnicheskiy institut
(Khar'kov Polytechnic Institute)

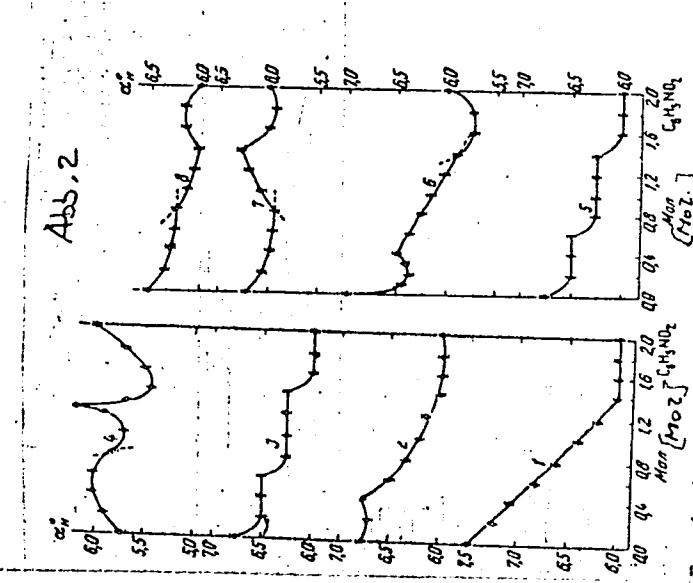
SUBMITTED: December 10, 1959

Card 5/9

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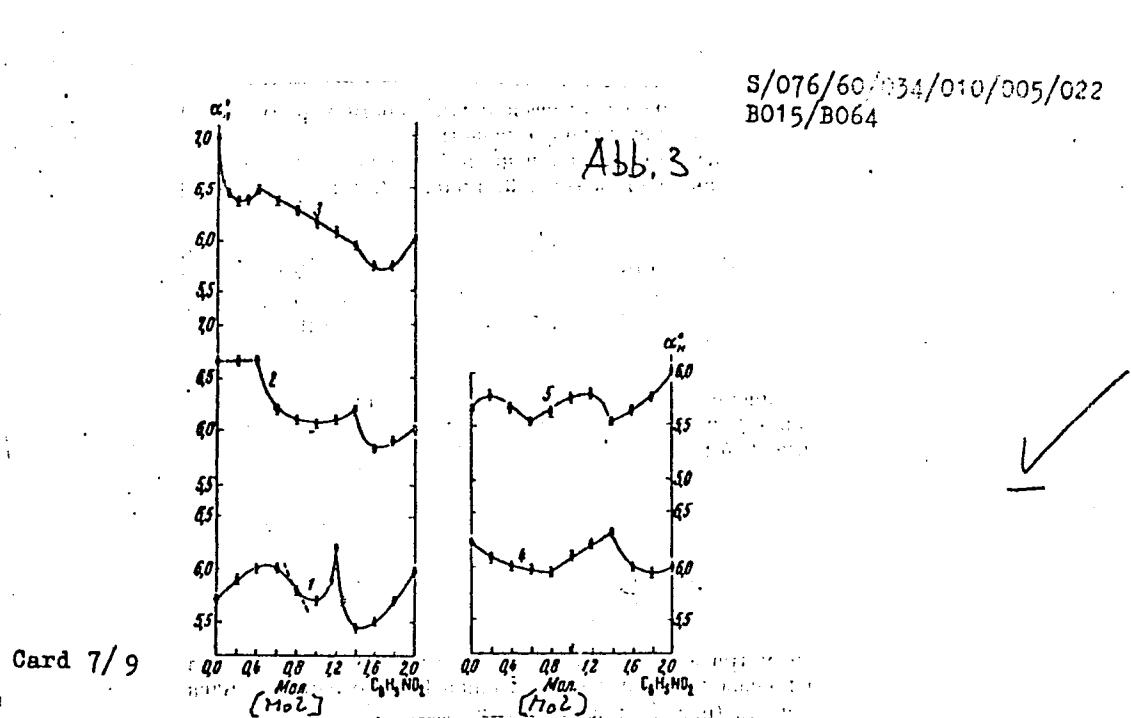
S/076/60/034/010/005/022
B015/B064

Card 6/9



S/076/60/034/010/005/022
B015/B064

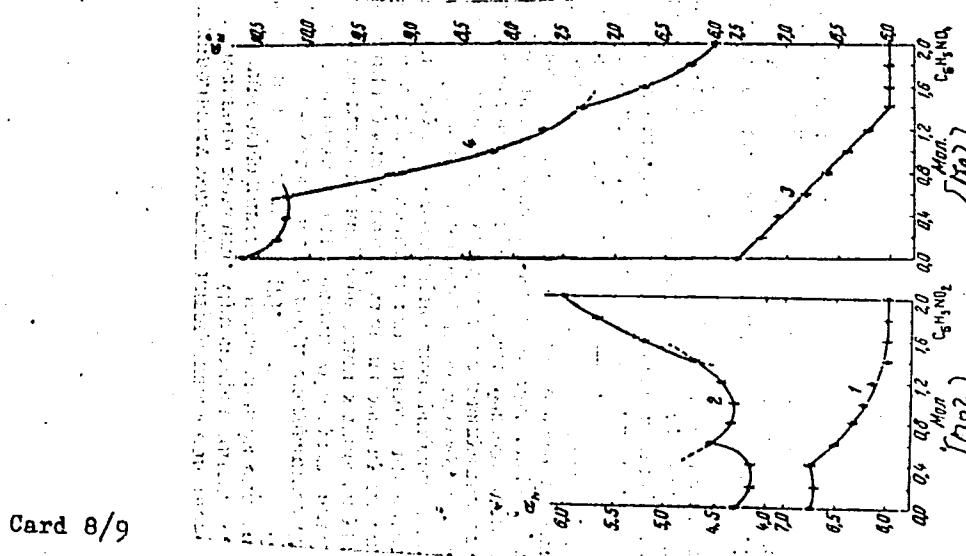
Abb. 3



"APPROVED FOR RELEASE: 06/09/2000

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S/076/60/034/010/005/022
B015/B064



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APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307310019-7"

Physico-chemical Investigations of the
Sensitivity of the Benzene Cycle to
Polarizing Actions of the Solvent and the
Field of Force. I. Magneto-optical
Examination of the Intermolecular Inter-
actions in Binary Nitrobenzene Systems of
the Alkyl-substituted Benzene Derivatives

S/076/60/034/010/005/022
B015/B064

Legend to Fig. 2, curve composition - α_H^0 of the binary systems:
1 - benzene - nitrobenzene, 2 - toluene - nitrobenzene. 3. 5 - ethyl
benzene - nitrobenzene, 4 - n-butyl benzene - nitrobenzene 6 - o-xylene-
nitrobenzene, 7 - m-xylene - nitrobenzene, 8 - p-xylene - nitrobenzene.
Fig. 3, curve composition - α_H^0 of the binary systems: 1 - n-butyl benzene -
nitrobenzene, 2 - tetraline - nitrobenzene. 3 - o-xylene - nitrobenzene,
4 - m-xylene - nitrobenzene, 5 - mesitylene - nitrobenzene; Fig. 4, curve
composition - α_H^0 of the binary systems: 1 - toluene - nitrobenzene, 2 -
tert-isobutyl benzene - nitrobenzene. 3 - benzene - nitrobenzene,
4 - α -methyl naphthalene - nitrobenzene.

Card 9/9

BUDYLOV, A.V.; VOL'F. L.A.; MEOS, A.I.; MAKAROVA, T.P.; SHEMKOV, N.K.

Studying the kinetics of the formation of the structure of
polyvinyl alcohol fibers. Khim. volok. no.2:24-27 '64.

1. LITILP im. S.M. Kirova (for Budylov, Vol'f, Meos).
2. Leningradskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta iskusstvennogo volokna (for Makarova).
3. Leningradskiy zavod iskusstvennogo volokna (for Shemkov).
(MIRA 17:5)

VALUYEV, Afanasiy Sergeyevich; GERTSENOVA, K.N., kand. tekhn. nauk,
retsenzent; LOBANOV, A.N., retsenzent; BORDYUKOV, M.P.,
retsenzent; BUDYLOV, P.V., retsenzent; OVSYANNIKOV, R.P.,
retsenzent; POGORELOV, V.M., retsenzent; ROGOZIN, S.M.,
retsenzent; VASIL'YEVA, V.I., red. izd-va; SUNGUROV, V.S.,
tekhn. red.

[Practical work in stereophotogrammetry] Praktikum po stereo-
fotogrammetrii. Moskva, Izd-vo geodez.lit-ry, 1961. 319 p.
(MIRA 15:1)

1. Kafedra fotogrammetrii Voyenno-inzhenernoy akademii im.
V.V. Kuybysheva (for Lovanov, Bordyukov, Budylov, Ovsyannikov,
Pogorelov, Rogozin).

(Photogrammetry)

ACC NR:	AP5026466	FSS-2/EWT(1)/T/EED(b)-3/EWA(c)	IJP(c)	GW
AUTHOR:	SOURCE CODE: UR/0006/65/000/010/0051/0059 <u>Tumar, N. A.</u> ; <u>Budylova, T. P.</u>			
ORG:	none			
TITLE:	<u>The Stereometrograph</u>			
SOURCE:	Geodeziya i kartografiya, no. 10, 1965, 51-59			
TOPIC TAGS:	photogrammetry, photogrammetric instrument, automatic coordinate-graph, stereometrograph			
ABSTRACT: The national firm of "Karl Zeiss Jena" is now mass-producing the "Stereometrograph," a general purpose stereophotogrammetric instrument of first-order accuracy. The instrument is designed for compiling the relief and planimetric detail for topographic maps from 18 x 18-cm or 23 x 23-cm vertical aerial photographs with a focal length of 98-215 mm. The stereometrograph automatically registers the coordinates of model points, converts them into a geodetic coordinate system, calculates areas, and determines the corrections for elements of reciprocal orientation in the aerial photographs and for elements of exterior orientation in the stereo-model. The basic specifications of the instrument are listed, and its operation is described in detail using schematic diagrams. The viewing system of the stereometrograph has a magnification of 8.7x. In addition to the main instrument, which takes up an area of 21.0 x 150 cm, the device incorporates a coordinatograph which occupies				
Card 1/2	UDC: 528.722.63			

L 4126-66

ACC NR: AP5026166

a space of 150 x 135 cm. The main instrument is 130 cm high and weighs about 1200 kg, while the coordinatograph is 95 cm high and weighs about 1200 kg. The coordinatograph has a drawing area of 800 x 800 mm. Tests show that the accuracy of the instrument is determined by the relative error in height measurement, which is 1:8000 at a focal length of 100 mm and 1:11,000 at $f = 200$ mm. When determining the altitudes of individual points from photographs controlled by four field control points, the average relative error in height measurement was close to 1:4000, and 1:3600 for planimetric position. One of the disadvantages of the instrument is the limited range of focal lengths for compiling aerial photographs. In addition, the instrument is not designed for constructing spatial photogrammetric nets. The new instrument is inferior to the SPR-2 stereoprojector which can be used to compile larger-scale maps from photographs of any focal length. Orig. art. has: 4 figures [ER] and 5 tables.

SUB CODE: 108 / SUBM DATE: none / ORIG REF: 001 / OTH REF: 000 / ATD PRESS: 412

BUDZYNSKA, Janina; BUDZYNSKI, Andrzej Z.

A simple way of preparing linolenic acid from linseed oil. Roczniki
chemii 34 no.3/4:1139-1144 '60. (EEAI 10:3)

1. Zaklad Badania Zywosci i Przedmiotow Uzytku Państwowego
Zakładu Higieny, Warszawa i Zakład Ochrony Zdrowia Instytutu
Badan Jądrowych Polskiej Akademii Nauk, Warszawa
(Linseed oil) (Linolenic acid)

BUDZYNSKA, Janina; BUDZYNSKI, Andrzej Z.

A simple way of preparing linolenic acid from linseed oil. Roczniki
chemii 34 no.3/4:1139-1144 '60. (EEAI 10:3)

1. Zaklad Badania Zywosci i Przedmiotow Uzytku Panstwowego
Zakladu Higieny, Warszawa i Zaklad Ochrony Zdrowia Instytutu
Badan Jadrowych Polskiej Akademii Nauk, Warszawa
(Linseed oil) (Linolenic acid)

LOVCHIKOV, I. S., BUDYUK, V. P.

Wheat

Best varieties of spring wheat for irrigated lands of the southwest and central-chernozem belt. Sel. i sem. 19 no. 5, 1952.

Monthly List of Russian Accessions, Library of Congress, July 1952. Unclassified.

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307310019-7

BUDYUK, V. P.

New varieties of grain crops adapted for certain districts. Post. sel'khoz.
No 7, 1952.

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307310019-7"

MARINICH, P.Ye., redaktor; USHAKOVA, Ye.I., akademik, redaktor; BAGRAMOV, G.O.,
redaktor; YEVDOKIMOV, M.M., redaktor; MARTYNOV, V.M., redaktor;
BUDYUK, V.P., redaktor; GUREVICH, M.M., tekhnicheskiy redaktor

[Methods of state testing of varieties of farm crops; vegetables,
melons and squash, potatoes, and fodder root crops] Metodika
gosudarstvennogo sortoispytaniia sel'skokhoziaistvennykh kul'tur;
ovoshchnye, bakhchevye kul'tury, kartofel' i kormovye korneplody.
Pod red. P.E. Marinicha i dr. Moskva, Gos. izd-vo selkhoz. lit-ry,
1956. 260 p.

(Plants, Cultivated)

(MLRA 9:9)

BUDYUK, V.P.

USSR/Cultivated Plants - General Problems

L-1

Abs Jour : Ref Zhur - Biologiya, No 16, 25 Aug 1957, 69165

Author : Budyuk, V.P.

Inst :

Title : Experiments of Ulyanov Varietal Section of Kirovograd District.

Orig Pub : Inform. byul. Gos. komis. po sortois pit. s.-kh kultur pri M-ve s. kh. SSSR, 1956, No 10, 12-18

Abstract : Organizational work of the varietal section is described, agrotechnique, seed breeding, implantation of these breeds in production.

Card 1/1

BUDYUK, V.P.; YEFIMOV, A.L.; BLINKOVA, M.V., kand. sel'skokhozyaystvennykh
nauk, starshiy agronom; SEMENOVSKIY, A.A., red.; MOROZOV, D.N.,
red.; PAVLOVA, M.M., tekhn. red.; FEDOTOVA, A.F., tekhn. red.

[Corn in 1955] Kukurusa v 1955 godu. Moskva, Gos. izd-vo sel'khoz.
lit-ry. No.1. [Non-Chernozem region] Nechernozemnaia zona. 1956.
366 p. No.2. [Districts of the Central Black Earth region and the
Volga region] Raiony tsentral'no-chernozemnoi zony i Povolzh'ja.
1956. 263 p.
(MIRA 11:9)

1. Glavnaya upravleniya sel'skokhozyaystvennoy nauki Ministerstva
sel'skogo khozyaystva SSSR. (for Blinkova).

(Corn (Maize))

BOYEV, Nikolay Dmitriyevich; BUDYUK, Vasiliy Poltonovich; MARTYNOV,
Valentin Mikhaylovich; kand.sel'skokhoz.nauk; PLESHKOV, B.I.,
red.; FEDOTOVA, A.F., tekhn.red.

[Growing oilseed plants in the Trans-Ural region, Siberia
and Kazakhstan] Vozdelyvanie maslichnykh kul'tur v Zaural'e,
Sibiri i Kazakhstane. Moskva, Gos.izd-vo sel'khoz.lit-ry,
1959. 162 p. (MIRA 12:10)
(Siberia--Oilseed plants) (Kazakhstan--Oilseed plants)

PRUTSKOVA, M.G., kand. sel'khoz. nauk; UKHANOVA, O.I.; SAKHAROVA, L.I.;
BOLSUNOVSKAYA, O.V.; IVANOVA, N.Ye.; LOVCHIKOV, I.S.; ZALKIND,
G.N.; IL'IN, M.I.; KOZ'MINA, K.A.; SHIKUT', V.A.; PETROVA,
Z.V.; GENERALOV, G.F.; BUDYUK, V.P.; GOMENYUK, L.I., red.

[New highly productive varieties of grain crops] Novye vysoko-
produktivnye sorta zernovykh kul'tur. Moskva, Kolos, 1965.
319 p.
(MIRA 18:8)

BUDZAN, I.M.

GEBGARDT, A.G.; BUDZAN, I.M.

Effect of the duration of the action of azotobacterin on cabbage yield. Dop. ta pov. L'viv's'kun. no.6 pt.2:30-32 '55.

(MIRA 10:3)

(Azotobacter) (Soil inoculation) (Cabbage)

MOLOTKOVSKIY, G.Kh. [Molotkovs'kyi, H.Kh.]; BUDZANIVSKIY, M.M.
[Budzanivs'kyi, M.M.]

Dynamics of the distribution of catalase and peroxidase activity in
potato plants. Ukr.bot.zhur. 18 no.6:11-15 '61. (MIRA 15:3)

1. Chernovitskiy gosudarstvennyy universitet, kafedra fiziologii
rasteniy.
(Potatoes) (Catalase) (Peroxidases)

ACTA PHYSICA POLONICA
Vol XVI, 1957

MULTI-PLATE IONIZATION CHAMBER FOR THE
DETECTIONS OF SLOW NEUTRONS 19

By Andrzej Budzanowski and Kazimierz Grotowski

Institute of Nuclear Research, Cracow

(Received November 19, 1956)

The authors describe the design of a multi-plate ionization chamber with electron pulses designed for the detection of slow neutrons. The electrodes of the ionization chamber, made in the shape of a multi-plate condenser, are coated with natural boron 8 mg/cm² thick. The chamber is filled with argon at a pressure of 1 atm. The chamber efficiency for thermal neutrons is about 2%.

Rmz Dant

Budzanowski, A.

POLAND/Physical Chemistry - Molecule, Chemical Bond.

B-4

Abs Jour: Referat. Zhurnal Khimiya, No 2, 1958, 3591.

Author : A. Budzanowski, K. Grotowski, J.A. Janik, F. Maniavski,
H. Rzany, A. Szkutula, A. Wanic.

Inst : Academy of Sciences of Poland.

Title : Estimation of The Potential Barrier Height of Torsional Ro-
tation in CH SH Molecules by Means of Slow Neutron Scattering.

Orig Pub: Bull. Acad. polon. sci., 1957, Cl. 3, 5, No 3, 295-297.

Abstract: An estimation of the potential barrier height of internal tor-
sional rotation V_0 of the methyl mercaptan molecule CH_3SH was
carried out by the method of thermal neutron scattering. The
neutron source was 100 μ curie of Ra mixed with Be according
to the reaction (α , n). The effective crosssection for the
 CH_3SH molecule ($\sigma_{\text{CH}_3\text{SH}} = 194.1 \pm 5$ barn), determined by the
method of relative beam attenuation, was measured. Water was
used as the standard liquid ($\sigma_{\text{H}_2\text{O}} = 91$ barn). The effective

Card : 1/2

-50-

POLAND / Physical Chemistry - Molecule, Chemical Bond.

B-4

Abs Jour: Referat. Zhurnal Khimiya, No 2, 1958, 3591.

cross section for the rigid CH_3SH molecule computed basing on Sachs and Teller theory $\sigma'_{\text{rig.}} = 258$ barn. Based on Kolos theory (in which the effective cross section is a function of the potential barrier height V_0), it was established that $\sigma'_{\text{CH}_3\text{SH}} = 194.1$ barn and the potential barrier height $V_0 =$ about 1000 kcal per mole for the measured cross section. Such a height agrees with results obtained by the methods of microwave spectroscopy, but disagrees with data obtained by the thermodynamic methods.

Card : 2/2

-51-

BUDZANOWSKI,A.

POLAND/Nuclear Physics - Installations and Instruments. Methods
of Measurement and Research G-2

Abs Jour : Ref Zhur - Fizika, No 9, 1958, No 19761

Author : Budzanowski Andrzej, Gradowski Kazimierz
Inst : Institute of Nuclear Research, Karkow, Poland
Title : Multi-plate Ionization Chamber for the Detection of Slow
Neutrons.

Orig Pub : Acta phys. polon., 1957, 16, No 1-2, 135-138

Abstract : Description of an ionization chamber with electron gathering,
the electrodes of which are coated with a layer of natural
boron of thickness 3 mg/cm^2 . Each electrode of the chamber
consists of three disks, placed between plates of the other
electrodes. The capacitance between the electrodes does not
exceed 15 microfarads. The technology of coating the
layer is as follows: the boron is mixed with alcohol and a
small amount of Canada balsam and is coated in the form of
an emulsion on the plates. The chamber efficiency is approx-

Card : 1/2

POLAND/Nuclear Physics - Installations and Instruments. Methods
of Measurement and Research C-2

Abs Jour : Ref Zhur - Fizika, No 9, 1958, No 19761

imately 2%. The filler is argon at atmospheric pressure.
The duration of the output pulses after forming is approx-
imately 5 microseconds.

Card : 2/2

Estimation of the height of the potential barrier of hindered rotation in the CH₃SH molecule by means of thermal neutron scattering. J. M. Andruszkiewicz, K. Grobowicki, A. Janik, W. Kozak, P. Mankiewicz, M. Pełczyński, A. Szafrański, and A. Wanek (Polish Acad. Sci., Warsaw), *Acta Phys. Polon.*, 16, 335-42 (1957); *J. C.R.*, 19, 1354b; *Kib, C.R.*, 50, 1468d.—In this paper the potential barrier height H of internal hindered rotation of MeSH was estd. by means of a method based on the scattering of thermal neutrons with a Maxwellian energy distribution (mean neutron energy, 0.037 e.v.). The cross section of MeSH mole, measured by thermal neutron scattering was (194.5 ± 5) b., estd. by the method of relative attenuation of the beam. H₂O was used as a standard liquid ($\sigma_{H_2O} = 91$ b.). The cross section of rigid MeSH mole, calcd. on the basis of the theory of Saenger and Teiler (*C.R.*, 35, 5785) was $\sigma_{rig} = 258$ b. By assuming $H = 705$ cal./mole and by taking into account the hindered rotation and the vibration of the atoms, the cross section of the MeSH mole, is calcd. to be $\sigma_{new} = 202$ b. The cross section for collisions that are elastic with regard to hindered rotation was also calcd. under the assumption that $H = 1460$ cal./mole, this value being obtained by thermodynamic methods. The discussion of the results leads to the conclusion that a height of 705 cal./mole found by microwave spectroscopic methods should be ascribed to the potential barrier in MeSH rather than the value obtained by thermodynamic methods.

H. H. Jaffé

EM

PHM

BUDZANOWSKI, A.; GROTOWSKI, K.

Elastic scattering angular distributions and total reaction cross sections for the interaction of 12.8 MeV deuterons with ^{58}Ni and ^{60}Ni nuclei. Inst fiz jadr report no.201:1-5 Ag '62.

1. Instytut Fizyki Jadrowej, Krakow.

BUDZANOWSKI, A.; PELLEGRINI, F.; WIKTOR, S.

The ($d, ^3\text{He}$) reaction on sulfur nuclei. Inst fiz jadr report
no.288:1-12 '63.

1. Instytut Fizyki Jadrowej, Krakow (for Budzanowski and Wiktor).
2. University of Padova, Italy (for Pellegrini).

BUDZANOWSKI, A.; GROTOWSKI, K.; MICEK, S.; NIEWODNICZANSKI, H.; SLIZ, J.;
STRZALKOWSKI, A.; WOJCIECHOWSKI, H.

Elastic scattering of 24.7 MeV alpha particles. Inst fiz jadr
report no.347:1-46 My '64.

1. Institute of Nuclear Physics, Krakow and Institute of Physics,
Jagiellonian University, Krakow.

BUDZANOWSKI, A.; GROTOWSKI, K.; JARZYK, L.; LAZARSKA, H., MIEK, S.;
NIEWODNICZANSKI, H.; STRZALKOWSKI, A.; WROBEL, J.

Energy dependence of the elastic scattering of alpha particles
on ^{40}Ca nuclei up to 179° . Inst fiz jadr report no.403:1-20
'65.

1. Institute of Nuclear Physics, Krakow, and Institute of Physics
of the Jagiellonian University, Krakow.

Thermomagnetic and magnetic properties of PbSe. Ya. S. Budzhak.
Certain anomalous properties of p-type PbTe. P. M. Starik,
P. I. Voronyuk.

Galvanomagnetic and thermomagnetic effects in HgTe. N. V. Gavaleshko.

Production and electrical properties of HgSe and the system HgSe-HgTe.
I. M. Rarenko, V. M. Nikitenko.

Electrical properties of In₂Se. I. M. Stakhira, A. N. Borets.

Report presented at the 3rd National Conference on Semiconductor Compounds,
Kishinev, 16-21 Sept 1963

Magnetic properties of semiconductors. K. D. Tovstyuk.

This presentation consists of the following papers:

Anisotropy of susceptibility of semiconductors. K. D. Tovstyuk,
E. I. Siynko, I. M. Stakira, O. M. Sorets.

Magnetic and thermomagnetic properties of HgTe, PbTe, AgSe, PbSe.
K. D. Tovstyuk, M. P. Gavaleshko, Ya. S. Budzhak, P. M. Sterik,
P. I. Voronyuk.

Magnetic susceptibility of CdTe and ZnTe. I. V. Potykevich,
A. V. Savitskiy.

Magnetic properties of the system HgTe-CdTe. K. D. Tovstyuk,
I. M. Rarenko, I. V. Potykevich.

Anisotropy of the thermal conductivity of CdSb. I. M. Pilat, L. I.
Anatychuk.

Electrical, magnetic, and optical properties of the system In₂Te₃-CdTe.
I. V. Potykevich, A. I. Seiyayev, S. V. Chupra.

Properties of crystals of CdSb doped with elements of groups IV and VI.
S. M. S...

TOVSTYUK, K.D.; BUDZHAK, Ya.S.; TARNAVSKAYA, M.V. [Tarnava's'ka, M.V.]

Structure of current carrier zones in PbSe. Ukr. fiz. zhur.
8 no.7:795-797 J1 '63. (MIRA 16:8)

(Lead selenide—Electric properties)

L-21835-65 EWT(1)/EPA(s)-2/EWT(m)/EWP(t)/EWP(b) Pt-10 AFWL/SSD/BSD/ASD(a)-5/
ESD(t)/IJP(c) RDW/JD
ACCESSION NR: AP5000624 S/0185/64/009/011/1203/1208

AUTHOR: Tovstyuk, K. D.; Budzhak, Ya. S.

TITLE: The magnetic susceptibility of lead selenide

SOURCE: Ukrayins'ky fizy*chnyy zhurnal, v. 9, no. 11, 1964, 1203-1208

TOPIC TAGS: magnetic susceptibility, lead selenide, Hall effect diamagnetism, magnetic property, semiconductor, current carrier

ABSTRACT: A study was made of the effect of nonparabolic zones on kinetic and magnetic effects in PbSe, in which the width of the forbidden zone $\Delta E \approx 0.22\text{eV}$, i.e., it is close to the value in indium antimonide. A formula is derived for the magnetic susceptibility of free current carriers, taking into account the nonparabolic nature of dispersion, using monozonal Hamiltonian approximation. Measurements were made of the magnetic susceptibility, Hall effect and thermal emf as a function of temperature in the 100-300K interval. The measurements were made on n- and p-type single crystals with carrier concentrations of the order of 10^{18} - 10^{19} cm^{-3} . It is shown that the gas of free current carriers is diamagnetic, and that the decrease of the overall diamagnetism with increase in temperature is associated with the decrease of the diamagnetism of the current carriers. The

Card 1/2

L 21335-65

ACCESSION NR: AP5000624

agreement between calculated and experimental data is much closer if one takes
into account the nonparabolic relationship than if one is not using corrections.
Orig. art. has: 5 figures and 14 formulas.

ASSOCIATION: Chernivets'kyj derzhuniversytet (Chernovtsy State University)

SUBMITTED: 23Aug63

ENCL: 00

SUB CODE: SS, EN

NO REF Sov: 007

OTHER: 003

Card 2/2

L 22435-65 EWT(1)/EWG(k)/EWT(m)/EPR/EEC(t)/T/EWP(t)/EEC(b)-2/EWP(b)
ACCESSION NR: AP5000625

S/0185/64/009/011/1209/1216 Pz..6/
IJP(c) RDW/JD/AT Ps-4/Pqb

AUTHOR: Budzhak, Ya. S.

TITLE: Thermoelectric and thermomagnetic properties of PbSe

SOURCE: Ukrayins'kyy fizichnyy zhurnal, v. 9, no. 11, 1964, 1209-1216

TOPIC TAGS: lead selenide, ¹¹₁₇ thermoelectric property, thermomagnetic property, Hall effect, semiconductor, current carrier

ABSTRACT: A study was made of the electrical conductivity, Hall effect and thermoelectric and thermomagnetic properties of PbS in the 100 - 420K interval. Investigations were conducted with n- and p- type single crystals produced by zone recrystallization of spectroscopically pure lead and selenium. The concentration of current carriers in such single crystals was 10^{18} - 10^{19} cm⁻³. The values of mobility of current carriers determined from measurements of R and σ and from measurements of Q_N agree over the whole temperature interval with an accuracy up to 15%, while the difference between these mobilities in the case of the parabolic energy spectrum changes as a function of temperature from 20 to 40%. Measurements of the magnetic susceptibility of the same specimens also show that correction for the deviation of the energy spectrum from a parabola

Cord. 1/2

L 22435-65

ACCESSION NR: AP5000625

2

produces good agreement between experimental and calculated data, while without such correction the discrepancy between them increases. It has been shown that a number of kinetic effects, including the law $U \sim T^{(2.5-3)}$, may be explained on the basis of isotropic and nonparabolic dispersion and that the main mechanism of scattering of current carriers is due to acoustic oscillations of the crystal lattice. "The author expresses his gratitude to Docent K. D. Tovstyuk for valuable advice in the course of this work." Orig. art. has: 6 figures and 12 numbered formulas.

ASSOCIATION: Chernivets'kyy derzhuniversytet (Chernovtsi State University)

SUBMITTED: 08Aug63

ENCL: 00

SUB CODE: SS, EM

NO REF Sov: 017

OTHER: 010

Card 2/2

L 6808-65 EWT(1)/EPA(s)-2/EWT(m)/EWP(q)/EWP(b) Pt-10 IJP(c)/AFWL/
ASD(a)-5/ESD(t)/RAFM(t) RDW/JD
ACCESSION NR: AP4044645

S/0048/64/028/008/1318/1320

66

AUTHOR: Budzhak, Ya.S.; Tovstyuk, K.D.

TITLE: Thermo[magnetic] and magnetic properties of lead selenide /Report, Third All-Union Conference on Semiconductor Compounds held in Kishinev 16-21 Sept 1963/

SOURCE: AN SSSR. Izv. Seriya fizicheskaya, v.28, no.8, 1964, 1318-1320

TOPIC TAGS: lead compound, selenide compound, semiconductor, semiconductor theory, magnetic susceptibility, lead selenide

ABSTRACT: The authors present rather involved expressions for the carrier mobility, carrier concentration, thermal emf, Hall constant, magnetic susceptibility, effective carrier mass, and temperature dependence of the relaxation time for a semiconductor, which presumably can be derived from a non-parabolic relation between carrier momentum and energy that they previously obtained in collaboration with M.V. Tarnav's'ka for PbSe (Ukr.fiz.zh.7,795,1963) and an expression for the dispersion of relaxation times due to R.Barrie (Proc.Phys.Soc.(London) B69,553,1958), J.M.Radcliffe (Proc.Phys.Soc.A68,428,1957), and G.I.Guseva and I.M.Tsidil'kovskiy (Fiz. tverdogo tela 4, 2490,1962). From the fact that the carriers in PbSe are scattered

1/2

L 6808-65

ACCESSION NR: AP4044645

mainly by acoustic lattice modes, and the known thermal emf of PbSe, the authors calculate the chemical potential and are then in a position to calculate the effective carrier mass, the temperature dependence of the relaxation time, and the magnetic susceptibility. These they compare with experimental data and conclude that taking account of the deviation of the carrier energy-momentum relation from the simple parabolic law improves the agreement. [Abstracter's note: It is not clear where the authors obtained the experimental data.] Orig.art.has: 14 formulas and 4 figures.

ASSOCIATION: none

ENCL: 00

SUBMITTED: OO

OTHER: 008

SUB CODE: SS, EM

NR REF Sov: 007

2/2

L 51439-65 EWF(1)/EWT(m)/EWG(m)/EWP(t)/EWP(b) IJP(c) RDW/JI
ACCESSION NR: AP5011074 UR/0185/65/010/01*/0461/(*)64

AUTHOR: Budzhak, Ya. S.; Nemish, I. Yu.

TITLE: Electric and thermoelectric properties of strongly doped PbSe

SOURCE: Ukrayins'kyi fizichnyi zhurnal, v. 10, no. 4, 1965, 461-464

TOPIC TAGS: lead selenide, doping, thermal emf, carrier mobility, Hall constant

ABSTRACT: The authors investigated single crystals of n-type PbSe strongly doped with Sb⁺ (samples 1 and 2) and Bi⁺ (samples 3 and 4). The carrier mobility μ and the differential thermal emf α were measured. In all samples the thermal emf increased monotonically with temperature, while the mobility variation can be represented approximately by the formula $\mu \sim T^{-(1.10-1.30)}$, which differs greatly from the universally used formula $\mu \sim T^{-(2.5-2.8)}$ for single-crystal PbSe with carrier density $n \sim 10^{18} \text{ cm}^{-3}$. The Hall-effect coefficient R in this temperature interval was constant and equal to 0.11, 0.082, 0.095, and $0.053 \text{ cm}^3\text{Coul}^{-1}$ for samples 1, 2, 3, and 4 respectively. The theoretical analysis of the results based on earlier papers by one of the authors (with K. D. Tovstyuk, Izv. AN SSSR ser. fiz. v. 28,

Cord 1/2

L 51439-65
ACCESSION NR: AP5011074

1319, 1964; Ukr. fizychn. zh. v. 9, 1209, 1964) showed good agreement with the experimental results; the few exceptions are briefly explained. Orig. art. has: 3 figures and 11 formulas.

ASSOCIATION: Chernivets'kyj derzhuniversytet [Chernovitskiy gosuniversitet]
(Chernovtsi State University)

SUBMITTED: 01JUL64

ENCL: 00

SUB CODE: 88

MR EFT SGV: OHL

OTHER: 007

MIC
Card 2/2

L 08131-67 EWT(1) IJP(c) AT

ACC NR: AP6033523 SOURCE CODE: UR/0185/66/011/010/1078/1088
AUTHOR: Budzhak, Ya. S.; Tovstyuk, K. D.; Nemish, I. Yu.ORG: Cherniv State University (Chernivets'kyy derzhuniversytet) 4/
BTITLE: Effect of nonparabolicity of energy bands on the kinetic properties of
semiconductors

SOURCE: Ukrayins'kyy fizychnyy zhurnal, v. 11, no. 10, 1966, 1078-1088

TOPIC TAGS: Fermi gas, current carrier, relaxation process, integral equation,
energy band, kinetic property, nonparabolicity, semiconductor

ABSTRACT: The concentration of current carriers of some kinetic coefficients are calculated for the cases of undegenerated and greatly degenerated Fermi gases with nonparabolic isotropic laws of dispersion. The scattering processes are described by the relaxation time $\tau = \tau_0(T) p^{2r-2} \left(\frac{de}{dp} \right)$, where r depends on the

scattering mechanism only. All kinetic integrals are integrated in general form for any r and expressed through known special tabulated functions. An analysis is given for the equations obtained for cases of weak and strong spectrum nonparabolicity.

Orig. art. has: 5 figures and 42 formulas. [Based on authors' abstract]

SUB CODE: 20 / SUBM DATE: 24Dec65 / ORIG REF: 007 / OTH REF: 008 /

Card 1/1 nst

BUDZHE M.M.

BUDZHE, M.M.

22681 Budzhe, V.M. Eritrin V. Bor'be S. Batsillonositel' Stvom I V
Klinike Difterii. Zdravookhraneniye. Sov. Latvii, Sb 3, 1949, S. 73-79
Rezyume Na Latysh.Yaz.

So: Letopis', No. 30, 1949

BUDZHE, M.M.

BUDZHE, M.M., dotsent (Riga).

Achievements of Soviet public health in the control of epidemics. Fel'd.i
akush. no.10:34-38 0 '53.
(MLRA 6:10)
(Public health)

M-3

USSR / Cultivated Plants. Cereal Crops.

Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 58520

Author : Budze, M.
Inst : Acad. Sci. LatvSSR
Title : The Effect of Late Nitrogen Fertilization on the Yield
and Quality of the Wheat Grain

Orig Pub : Izv. AN LatvSSR, 1956, No. 12, 71-81

Abstract : The effect of the time of fertilization with N of winter
(hybrid No 1) and summer wheat varieties Diamant and
Moskovka on the yield and quality of grain on lixiviated
turf-carbonated argillaceous soils was studied. The
yield and quality of the grain of winter wheat increased
most when the fertilization took place in the period of
tillering. In the case of summer wheat, it is recommended
to fertilize the field twice, at the beginning of tiller-
ing and of ear formation. Late fertilization by means of

Card 1/2

24

USSR/General Problems of Pathology - Pathophysiology of
Infectious Process.

U.

Abs Jour : Ref Zhur - Biol., № 19, 1958, 89505

Author : Budzic, M.M., Briedis, L.P., Purgala, A.V.

Inst : Riga Medical Institute.

Title : The Phagocytic Reaction of the Blood in Typhoid-Para-Typhoid and Its Significance During the Prerelapse Period.

Orig Pub : Sb. nauchn. rabot. Rizhsk. med. in-ta, 1957, 7, 193-200

Abstract : 980 phagocytic reaction tests (PR) were carried out on 120 subjects: healthy and ill with typhoid, paratyphoid A, etc. The specificity of PR was demonstrated. Mild and moderately severe forms of the disease were accompanied by moderate PR., severe and abortive forms were associated with intense phagocytic activity.

Card 1/2

USSR/General Problems of Pathology - Pathophysiology of
Infectious Process.

U.

Abs Jour : Ref Zhur - Biol., No 19, 1958, 89505

The increase of specific phagocytosis (SP) was also associated with an increase of the nonspecific PR of the blood, but the SP was always more intense than the non-specific. The PR is insignificant during the early stages of the illness, but as this progressed, it became more intense and reached its maximum at the beginning of convalescence. The PR became always weaker with the onset of a relapse or of complications. -- N.L. Riskin.

Card 2/2

- 7 -

USSR / Human and Animal Physiology. Metabolism.

T

Abs Jour: Ref Zhur-Biol., No 9, 1958, 41072.

Author : Budzhe, M. M.; Blyuger, A. F.

Inst : Not Given.

Title : The Clinical Significance of the Activity of
Alkaline Phosphatase in the Blood Serum in Typhoid
and Paratyphoid Fevers and Relapses.

Orig Pub: Terapevt. arkhiv., 1957, 29, No 9, 54-58.

Abstract: No Abstract.

Card 1/1

24

BUDZHE, Mariya Mikhaylovna (Riga Med Inst) for Doc Med Sci on the basis of dissertation defended 16 Mar 59 in Council of Second Mos State Med Inst im Pirogov, entitled "Recurrences of typho-paratyphoid diseases and their prevention."
(BMMISSO USSR, 1-61, 20)

BUDZHE, M.M.; BLYUGER, A.F.; DAKHOVKER, S.Ye.; LAZDYNIA, M.A. [Lazdiņa, M.A.];
SHENIGSON, B.S.

Comparative study on various systems of ascariasis therapy using
piperazine salts. Med.paraz. i paraz.hol. 28 no.4:436-438 J1-Ag '59.
(MIRA 12:12)

1. Iz Instituta organicheskogo sinteza Akademii nauk (Latviyskoy
SSR; kafedry infektsionnykh bolezney Rizhskogo meditsinskogo inati-
tuta; Latviyskoy respublikanskoy i Rizhskoy gorodskoy sanitarno-epi-
demiologicheskikh stantsiy.

(ASCARIASIS therapy)
(PIPERAZINES therapy)

BUDZHE, M. [Budze, M.]

"Immunology and prospects for eliminating poliomyelitis in the Latvian S.S.R." by [doktor med.nauk] R.A.Kukaine. Reviewed by M.Budzhe. Vestis Latv ak no.4:151-152 '62.

X

BUDZE, M., red.; BLUGERS, A., red.; PAVULE, A., red.; EBNSTEINE, A.,
tekhn. red.

[Handbook on the most important infectious diseases] Svariga-
kas infekcijas slimibas; rokasgramata. Riga, Latvijas Valsts
izdevnieciba, 1961. 309 p. (MIRA 15:10)
(COMMUNICABLE DISEASES)

BUDZIANOWSKI, Zbigniew, prof. dr inż.

Action of a curved subbase on the stiff construction
located in the mining region. Pt.2. Inz i bud 21 no.7:
235-239 Jl '64.

1. Silesian Technical University, Gliwice.

CHACHAVA, K.V.; BUDZHIASHVILI, O.N.; KINTRAIA, P.I.

Electrocardiogram of the fetus in the process of parturition
under normal conditions and in pathology. Soob. AN Gruz. SSR
31 no. 2:481-488 Ag '63. (MIRA 17:7)

GODERDZISHVILI, T.M.; BAGRATIONI, F.P.; KHUCHJA, A.V.;
BURNASHVILI, V.K.

Changes in some biochemical indices of the blood in coronary
perfusion. Trudy Inst. eksp. i klin. khir. i gemat. AN Gruz.
SSR 11:21-24 '63. (MERA 17:8)

JOSELIANI, G.D.; BUDZHIASHVILI, V.K.; KHUCHUA, A.V.

Methods of isolated brain and heart perfusion under conditions of
hypothermia. Soob. AN Gruz. SSR 35 no.2:461-468 Ag '64.

(MIRA 17:12)

I. Institut eksperimental'noy i klinicheskoy khirurgii i hematologii
AN Gruzinskoy SSR, Tbilisi. Submitted January 20, 1964.

L 27294-65 EWG(j)/ENT(1)/ENG(r)/FS(v)-3/ENG(v)/EWG(a)/EWG(c) Pe-5 DD
ACCESSION NR: AP5003273 S/0251/64/036/003/0705/0109
2/3 7/1 B

AUTHORS: Budzhiazhvili, V. K.; Kavkasidez, A. G.

TITLE: Certain structural and histochemical variations in nerve cells of the brain under its isolation perfusion in conditions of moderate hypothermy

SOURCE: All GruzSSR. Soobahcheniya, v. 36, no. 3, 1964, 705-709

TOPIC TAGS: surgery, nerve cell, heart, open heart surgery, blood transfusion, brain, human brain nervous tissue, AIK RP-62 circulation device

ABSTRACT: The method of isolation perfusion of the brain, used in conjunction with moderate hypothermy is discussed. The fundamental problem dealt with involved the study of structural and fine histochemical variations of various sections of the brain, occurring with isolation perfusion. Perfusion was carried out by means of a light-weight blood circulating device AIK RP-62 in conditions of moderate hypothermy (30-27°C) during brain operations performed upon dogs. In all, 23 dogs were used in the operations; perfusion periods of 15, 25, 40, and 60 minutes were used, followed by periods of 7 and 24 hours after the operations. The methods of Andrei, Shabadash, and Bil'shovskiy were followed to detect the occurrence of various histopathological phenomena. Histochemical variations encountered during the course of the

L 27294-65

ACCESSION NR: AP5003273

operations are discussed by the authors, and comments are made concerning the causes of the observed effects. Certain effects are described as being transitory or reversible, while others were of a more permanent nature. The authors suggest that harmful manifestations were of a temporary, structurally-reversible character.

ASSOCIATION: Akademiya meditsinskikh nauk SSSR, Institut eksperimental'noy i klinicheskoy khirurgii i hematologii, Tbilisi (Institute of Experimental and Clinical Surgery and Hematology, AMN SSSR)

SUBMITTED: 06Apr64

ENCL: 00

SUB CONE: LS

NO REF SOV: 006

OTHER: 001

Card 2/2

CHACHAVA, K.V., prof.; BUDZHIASHVILI, O.N.; KINTRAI, P.I.

Fetal electrocardiogram in the process of normal and pathologic labor. Akush. i gin. 40 no.3:23-29 My-Je '64.

(MIRA 18:6)

I. Kafedra skusherstva i ginekologii (zav. - prof. K.V.Chachava)
Tbilisskogo instituta usovrshenstvovaniya vrachey.

BUDZIAKOWSKI, J.

TECHNOLOGY

PERIODICAL: GOSPODARKA WODNA. Vol. 18, no. 8, Aug. 1958

BUDZIAKOWSKI, J. Development of hydromechanization in Poland. p. 359.

Monthly List of East European Accessions (EEAI) LC Vol. 8, no. 4.

April 1959, Unclass

BUDZIANOWSKI, Andrzej, ins. (Warszawa)

From scientific research and experimental work to industry
and performance. Przegl budowl i bud mieszk 35 no.1:59-60
Ja '63.

BUDZIAKOWSKI, Jozef, mgr inz.

"The consulting engineer" by C. Maxwell Stanley. Reviewed by
Jozef Budziakowski. Gosp. wodna 22 no.10:463-465 0 '62.

BUDZIANOWSKI Z.

Biegun spręzysty jako reduktor równań spręzystości (Elastic pole as reducer of elasticity equations) by Z. Budzianowski. Reported in New Books (Nowe Ksiazki.) March 1, 1956.

BUDZIANKOWSKI, Z.

From the theory of short rods on elastic subsoil. p. 309.

INZYNIERIA I BUDOWNICTWO. Warszawa, Poland. Vol. 16, no. 8, Aug. 1959.

Monthly List of East European Accessions (EEAI) LC, Vol 9, no. 2, Feb. 1960.
Uncl.

BUDZIANOWSKI, Z.; KROL, W.

"A sure method of testing the strength of the concrete in reinforced-concrete pillars already in use."

p. 13 (Budownictwo Przemyslowe) Vol. 6, no. 10, Oct. 1957
Warsaw, Poland

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

BUDZIANOWSKI, Zbigniew, doc. dr inz.; NIEWIADOMSKI, Jerzy, dr inz.

Dynamic measurement of forces in arcs by taking into consideration
the keystone mass. ~~I~~ bud 19 no.3:110-113 Mr '62.

1. Politechnika Slaska, Gliwice.

BUDZIANOWSKI, Z.: KROL, W.

Testing the thermoelectric prestressing of reinforced-concrete pipes
by applying co mon-quality steel, p. 253.

INZNIERJI I BUDOWNICTWO. (Naczelna Organizacja Techniczna i Polski
Zwiazek Inzynierow i Technikow Budowlanych) Warszawa, Poland,
Vol. 16, No. 6, June 1959

Monthly List of East European Accessions Index (EEAI), LC, Vol. 8, No. 11,
November 1959
Uncl.

BUDZIANOWSKI, Zbigniew (Gliwice)

System of two elastically stressed bars resting on an elastic foundation. Archiw inz lad 6 no.4:491-523 '60.

BUDZIANOWSKI, Zbigniew, prof. dr inz.

Action of a curved subbase on stiff construction located in
the mining region. Pt.1. Inz i bud 21 no.6:199-206 Je '64.

1. Silesian Technical University, Gliwice.

BUDZIK, V.D. [Budzyk, V.D.]

Morphological and anatomical study of the stem, leaves, and fruit
of Rumex alpinus L. Farmatsev. zhur. 15 no.1:46-50 '60.

(MIRA 14:5)

1. Kafedra farmakognozii L'vovskogo meditsinskogo instituta,
zaveduyushchiy kafedroy prof. T.F.Vil'chinskiy [Vil'chyns'kyi, T.F.].
(RUMEX)

BUDZIK, V.D. [Budzyk, V.D.]

Dynamics of the concentration of free and bound oxymethylanthraquinones
in Rumex alpinus. Farmatsev. zhur. 16 no.6:52-55 '61. (MIRA 15:5)

1. L'vovskiy meditsinskiy institut.
(RUMEX) (ANTHRAQUINONE)

2
CZECHOSLOVAKIA

TOMKO, J.; VOTI KY, Z.; BUDÍKOVSKÝ, H.; DURMAN, L. J.

Institute of Chemistry, Department of Alkaloids of the
Slovak Academy of Sciences, Bratislava (for all)

Prague, Collection of Czechoslovak Chemical Communications,
No 10, 1965, pp 3320-3323

"Alkaloids of Veratrum album Subsp. lobelianum (Burmh.)
Gussenguth. X. Structure of Veramarine."

BUDZIKOWSKI, W.

Carrying out the plan of freight transportation in
1955 and during the 6-Year Plan. p. 171. PRZEWIAD KOISJONY,
Warszawa. Vol. 8, no. 5, May 1956.

SOURCE:

East European Acession List (E SAL) Library of Congress
Vol. 5, no. 8, August 1956.

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Automotive transportation in the German Democratic Republic cooperates
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(SKIN, physiology,
regen)
(REGENERATION,
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L 23097-65 EEC(b)-2/EPR(n)-2/EPA(s)-2/EPA(w)-2/EWA(h)/EWT(1)/EWT(m)/EEC(t)/
EWP(b)/EWP(e) P1-4/Pt-10/Pab-10/Peb IJP(c) GG
ACCESSION NR: AT5001037 P/2518/64/011/002/0163/0172

AUTHOR: Pietrzak, J.; Budzilowicz, Z.

TITLE: Ferroelectric properties of BaTiO_3 polycrystalline textures

SOURCE: Poznanskie Towarzystwo Przyjaciol Nauk. Komisja Matematyczno-
Przyrodnicza. Prace, v. 11, no. 2, 1964. Fizyka dielektrykow, II, 163-172

TOPIC TAGS: barium titanate, barium titanate ferroelectric property, poly-
crystalline texture, dielectric constant, polarization, textured sample property,
coercive field

ABSTRACT: The ferroelectric properties of barium titanate have been studied using polarized and nonpolarized samples sintered for 1 hr at 1300 C. The experimental results given in Tables 1 and 2 in the Enclosure show that 1) textured samples have a permittivity ϵ of lower value and that the lower value is not due to the change in density, 2) the ϵ of textured samples in the temperature range 0 to 200C is about 10% lower, 3) the Curie point T_c is the same for both types of samples, but textured samples display a higher Curie-Weiss temperature, 4) the total polarization P_t and spontaneous polarization P_s is higher for textured

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ACCESSION NR: AT5001037

3

samples, the P_s value being higher by about 40%, and 5) the coercive field H_c of textured samples is lower by about 20%. The data show that the particle arrangement in the barium titanate takes place during the polarization prior to sintering and that a diffused texture is caused by the recrystallization during sintering at high temperatures. "The authors thank Prof. Dr. A. Piekara for guiding the present study." Orig. art. has: 7 formulas, 5 figures, and 2 tables.

ASSOCIATION: Poznanskie Towarzystwo Przyjaciol Nauk, Wydzial Matematyczno-Przyrodniczy (Poznan Society of Friends of Science, Department of Mathematics and Natural Science); Katedra Fizyki Doswiadczalnej Uniwersytetu im. Mickiewicza, Poznan (Department of Experimental Physics, Mickiewicz University)

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Card 2/4

Budzinauskas, Ch. S.

AID P - 882

Subject : USSR/Electricity

Card 1/1 Pub. 29 - 15/23

Author : Budzinauskas, Ch. S., Eng.

Title : Winding machine for insulating transformer wires

Periodical : Energetik, 10, 22-24, 0 1954

Abstract : The author briefly describes and gives two detailed drawings of the machine used for repairs of wire insulation.

Institution : Not given

Submitted : No date

SEMADENI, Irena; BUDZINSKA, Kazimiera; KANTOREK, Regina; SONTA, Krystyna

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l. Z Kliniki Chirurgii Stomatologicznej Pomorskiej Akademii Medycznej
Kierownik: doc. dr med. Irena Semadeni.

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Yu. Yu. Dzhanelidze, deceased).